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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/700,933	11/04/2003	Dalc A. Davison	18-595-1-1	5933
23898 7590 09/19/2007 VINCENT L. CARNEY LAW OFFICE P.O. BOX 80836 LINCOLN, NE 68501-0836		EXAMINER		
		WALLENHORST, MAUREEN		
			ART UNIT	PAPER NUMBER
			1743	
			MAIL DATE	DELIVERY MODE
			09/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Commence	10/700,933	DAVISON ET AL.			
Office Action Summary	Examiner	Art Unit			
	Maureen M. Wallenhorst	1743			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	I. ely filed the mailing date of this communication. O (35 U.S.C. § 133)			
Status					
1) Responsive to communication(s) filed on		•			
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, <u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-12, 14-16 and 21-26 is/are pending	in the application.				
4a) Of the above claim(s) is/are withdraw	· ·	•			
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) <u>1-12,14-16 and 21-26</u> are subject to re	estriction and/or election requiren	nent.			
Application Papers		·			
9)☐ The specification is objected to by the Examiner	·				
10) The drawing(s) filed on is/are: a) acce		Examiner.			
Applicant may not request that any objection to the o	•				
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:					

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-12, drawn to a method of forming a density gradient solution in order to perform density gradient separations, classified in class 436, subclass 177.
 - II. Claims 14-16, drawn to a gradient former, classified in class 422, subclass 101.
 - III. Claim 21, drawn to an apparatus for performing density gradient separations, classified in class 422, subclass 101.
 - IV. Claims 22-26, drawn to a combination of a shipping container and an immobilized solution, classified in class 422, subclass 102.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the process as claimed can be practiced by hand since the process of Group I does not require any pumps, mixers or controllers in order to be performed.
- 3. Inventions I and III are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the process

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as claimed can be practiced by hand since the process of Group I does not require a central station, an apparatus for storing gradient tubes and a plurality of remote stations in order to be performed.

- 4. Inventions I and IV are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the process as claimed can be practiced by another and materially different apparatus such as an analyzer in a central laboratory where there is no need to ship a density gradient solution to another location, and therefore, no need for the shipping container of Group IV.
- Inventions II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions have different designs and modes of operation. The invention of Group III operates through the use of pumps, a mixer and a controller, whereas the invention of Group III operates through the use of a central station, an apparatus for storing gradient tubes and a plurality of remote stations, where each remote station includes means for re-mobilizing an immobilized density gradient solution. The invention of Group II does not require a central station, an apparatus for storing gradient tubes and a plurality of remote stations. The invention of Group III does not require any pumps, a mixer or a controller.
- 6. Inventions II and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation,

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and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions have different designs and are not disclosed as capable of use together. The invention of Group II is designed to have pumps, a mixer and a controller, whereas the invention of Group IV is designed to include a shipping container. The invention of Group II is not disclosed as capable of use with a shipping container, and the invention of Group IV is not disclosed as capable of use with pumps, a mixer and a controller.

- 7. Inventions III and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions have different designs and are not disclosed as capable of use together. The invention of Group III is designed to have a central station, an apparatus for storing gradient tubes and a plurality of remote stations, whereas the invention of Group IV is designed to include a shipping container. The invention of Group III is not disclosed as capable of use with a shipping container, and the invention of Group IV is not disclosed as capable of use with a central station, an apparatus for storing gradient tubes and a plurality of remote stations.
- 8. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.
- 9. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

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The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

10. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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11.

Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Maureen M. Wallenhorst whose telephone number is 571-272-

1266. The examiner can normally be reached on Monday-Thursday from 6:00 AM-4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the

organization where this application or proceeding is assigned is 57.1-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Maureen M. Wallenhorst **Primary Examiner**

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mmw

September 5, 2007

MALIRFEN M. WALLENHORST PRIMARY EXAMINER

GROUP 100